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Petty et al.

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(54) **POLE CLIMBING FALL PREVENTION
ASSEMBLY**

FOREIGN PATENT DOCUMENTS

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CA	2676507	2/2010
CA	2681870	4/2010
CN	101564578	10/2009
JP	10-151214	6/1998
JP	2003-070925	3/2003
WO	WO 2008/054041 A1	5/2008
WO	WO 2011/112517 A2	9/2011

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Minseal, Ceramic Fiber Net, "CeraTex Ceramic Fiber Cloth"
webpage, copyright Mineral Seal Corporation, 2008, 1 page total.*

OTHER PUBLICATIONS

(Continued)

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(58) **Field of Classification Search**
USPC 182/3, 9, 133
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

869,382 A *	10/1907	Newton	182/9
1,344,955 A	6/1920	Morse	
1,802,288 A	4/1929	Strauss	

(Continued)

(57) **ABSTRACT**

A fall prevention assembly to prevent injuries when a user climbing a pole and falls, is provided. The fall prevention assembly includes a pole strap, a first connector, a floating back plate, a second connector and a lanyard. The pole strap has a first end, a second end and a mid portion between the first end and the second end. The first connector has a first end that is slidably coupled proximate the first end of the pole strap. The floating back plate is engaged between a portion of the first connector and the pole strap and is configured and arranged to selectively bind the pole strap to the first connector. The second connector is coupled a select distance from the second end of the pole strap. The lanyard has a first end, a second end and mid portion between the first and second ends. A second end of the first connector is slidably coupled to the lanyard. A second end of the second connector is slidably coupled to the lanyard such that the mid-portion of the pole strap and the mid-portion of the lanyard can be positioned around a pole to be climbed.

30 Claims, 18 Drawing Sheets

